

ABSTRACT OF THE DISCLOSURE

A moving magnet type linear actuator long in service life having no effect on a linear guide even in the case of performing a highly-frequent acceleration/deceleration operation is provided. In a moving magnet type linear actuator comprising a stator unit including a stator base, a magnetic core and an armature unit, and a moving unit including a field permanent magnet arranged so as to face the magnetic core via a magnetic first gap and a magnet holder of nonmagnetic material movably disposed on the stator base while holding the field permanent magnet, and a magnetic back yoke is arranged at an anti-armature side of the field permanent magnet via a magnetic second gap from the field permanent magnet, the magnetic second gap is set to be larger than the magnetic first gap.